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United States Patent

[19]

Constancis et al.

[11] **Patent Number:** **5,496,872**[45] **Date of Patent:** **Mar. 5, 1996**[54] **ADHESIVE COMPOSITIONS FOR SURGICAL USE**[75] Inventors: **Alain Constancis**, Lyons; **Gérard Soula**, Meyzieu; **Jean-Louis Tayot**, La Tour de Salvagny; **Jérôme Tiollier**, Lyons, all of France[73] Assignee: **Imedex**, Chaponost, France[21] Appl. No.: **277,069**[22] Filed: **Jul. 19, 1994**[30] **Foreign Application Priority Data**

Jul. 21, 1993 [FR] France 93 08964

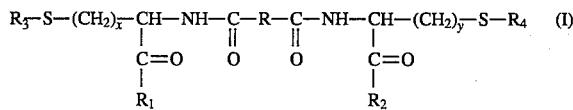
[51] Int. Cl.⁶ **A61K 38/00**; A61L 25/00; C08G 69/10; C08L 1/00[52] U.S. Cl. **523/118**; 523/111; 523/113; 524/606; 528/313; 528/318; 528/328; 514/626; 514/712; 530/300; 602/50[58] **Field of Search** 523/111, 118; 524/606; 528/313, 318, 328; 514/626, 712; 602/50; 530/300[56] **References Cited**

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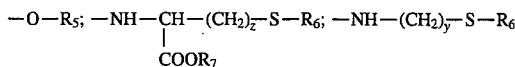
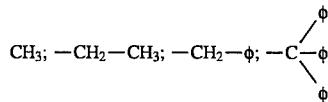
Primary Examiner—Paul R. Michl*Assistant Examiner*—Andrew E. C. Merriam*Attorney, Agent, or Firm*—Larson and Taylor[57] **ABSTRACT**

The invention relates to an adhesive, biocompatible, biodegradable and non-toxic composition for surgical use, in particular for binding tissues, which composition is of the following general formula:



in which:

R is a hydrocarbon chain containing from 1 to 50 carbon atoms,

R₁ and R₂ are identical or different and are chosen from the following groups:R₃, R₄, R₅, R₆ and R₇ independently represent hydrogen or an aliphatic and/or alicyclic and/or aromatic group,**17 Claims, No Drawings**